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Terms	Documents
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object stream and flag	30
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Database: [All Databases \(USPT + EPAB + JPAB + DWPI + TDBD\)](#) object stream and flag  **Refine Search:****Search History**

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
ALL	object stream and flag	30	<u>L2</u>
ALL	flag and object oriented system and relational system	1	<u>L1</u>

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Terms	Documents
flag and object oriented system and relational system	1

Database: [All Databases \(USPT + EPAB + JPAB + DWPI + TDBD\)](#)

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Search History

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
ALL	flag and object oriented system and relational system	1	L1

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Entry 1 of 1

File: USPT

Dec 23, 1997

US-PAT-NO: 5701400

DOCUMENT-IDENTIFIER: US 5701400 A

TITLE: Method and apparatus for applying if-then-else rules to data sets in a relational data base and generating from the results of application of said rules a database of diagnostics linked to said data sets to aid executive analysis of financial data

DATE-ISSUED: December 23, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Amado; Carlos Armando	Miami	FL	33131-240	N/A
				0

US-CL-CURRENT: 706/45; 706/47, 706/60**Full** | **Title** | **Citation** | **Front** | **Review** | **Classification** | **Date** | **Reference** | **Claims** | **KMC** | **Image**

Terms	Documents
flag and object oriented system and relational system	1

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Entry 11 of 30

File: USPT

Apr 7, 1998

US-PAT-NO: 5737595

DOCUMENT-IDENTIFIER: US 5737595 A

TITLE: Distributed database system and database receiver therefor
DATE-ISSUED: April 7, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cohen; Thomas Andrew	Cottesloe	N/A	N/A	AUX
Chatfield; Robert Jeffries	Leederville	N/A	N/A	AUX

US-CL-CURRENT: 707/100; 707/104**Full Title Citation Front Review Classification Date Reference Claims KMC Image****12. Document ID: US 5706504 A**

Entry 12 of 30

File: USPT

Jan 6, 1998

US-PAT-NO: 5706504

DOCUMENT-IDENTIFIER: US 5706504 A

TITLE: Method and system for storing data objects using a small object data stream
DATE-ISSUED: January 6, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Atkinson; Robert G.	Woodinville	WA	N/A	N/A
Bliss; Andrew L.	Bellevue	WA	N/A	N/A
Laifornara; Philip J.	Bellevue	WA	N/A	N/A
Ljubicich; Philip	Seattle	WA	N/A	N/A
Tilles; Alexander G.	Seattle	WA	N/A	N/A
Williams; Antony S.	Redmond	WA	N/A	N/A

US-CL-CURRENT: 707/100; 711/1, 711/100**Full Title Citation Front Review Classification Date Reference Claims KMC Image****13. Document ID: US 5692129 A**

Entry 13 of 30

File: USPT

Nov 25, 1997

US-PAT-NO: 5692129
DOCUMENT-IDENTIFIER: US 5692129 A

TITLE: Managing application programs in a computer network by using a database of application objects
DATE-ISSUED: November 25, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sonderegger; Kelly E.	Orem	UT	N/A	N/A
Hopton; Kevin L.	Orem	UT	N/A	N/A
Brooks; Matthew G.	Orem	UT	N/A	N/A
Lawrence; Andy	Orem	UT	N/A	N/A
Janis; Damon	Provo	UT	N/A	N/A
Dayton; Lori K.	Provo	UT	N/A	N/A
Oldroyd; Thomas B.	Orem	UT	N/A	N/A

US-CL-CURRENT: 707/103; 707/10, 709/203, 709/226

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Image](#)

14. Document ID: US 5689703 A

Entry 14 of 30

File: USPT

Nov 18, 1997

US-PAT-NO: 5689703

DOCUMENT-IDENTIFIER: US 5689703 A

TITLE: Method and system for referring to and binding to objects using identifier objects
DATE-ISSUED: November 18, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Atkinson; Robert G.	Woodinville	WA	N/A	N/A
Williams; Antony S.	Mercer Island	WA	N/A	N/A
Jung; Edward K.	Seattle	WA	N/A	N/A

US-CL-CURRENT: 707/103; 395/702, 395/703

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Image](#)

15. Document ID: US 5682536 A

Entry 15 of 30

File: USPT

Oct 28, 1997

US-PAT-NO: 5682536

DOCUMENT-IDENTIFIER: US 5682536 A

TITLE: Method and system for referring to and binding to objects using identifier objects
DATE-ISSUED: October 28, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Atkinson; Robert G.	Woodinville	WA	N/A	N/A
Williams; Antony S.	Mercer Island	WA	N/A	N/A
Jung; Edward K.	Seattle	WA	N/A	N/A

US-CL-CURRENT: 395/703; 709/303

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16. Document ID: US 5680616 A

Entry 16 of 30

File: USPT

Oct 21, 1997

US-PAT-NO: 5680616
DOCUMENT-IDENTIFIER: US 5680616 A

TITLE: Method and system for generating and maintaining property sets with unique format identifiers
DATE-ISSUED: October 21, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Williams; Antony S.	Redmond	WA	N/A	N/A
Martinez; Edward A.	Redmond	WA	N/A	N/A
Hachamovitch; Dean J.	Seattle	WA	N/A	N/A

US-CL-CURRENT: 707/103; 707/100

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17. Document ID: US 5652884 A

Entry 17 of 30

File: USPT

Jul 29, 1997

US-PAT-NO: 5652884

DOCUMENT-IDENTIFIER: US 5652884 A

TITLE: Method and apparatus for dynamic update of an existing object in an object editor
DATE-ISSUED: July 29, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Palevich; Jack H.	Sunnyvale	CA	N/A	N/A

US-CL-CURRENT: 713/1; 707/100

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18. Document ID: US 5630131 A

Entry 18 of 30

File: USPT

May 13, 1997

US-PAT-NO: 5630131

DOCUMENT-IDENTIFIER: US 5630131 A

TITLE: Method and apparatus for importing and exporting archive files for a graphical user interface
DATE-ISSUED: May 13, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Palevich; Jack H.	Sunnyvale	CA	N/A	N/A
Taylor; Thomas H.	San Jose	CA	N/A	N/A

US-CL-CURRENT: 395/701; 345/326, 709/303

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19. Document ID: US 5613124 A

Entry 19 of 30

File: USPT

Mar 18, 1997

US-PAT-NO: 5613124
DOCUMENT-IDENTIFIER: US 5613124 A

TITLE: Method and system for generating and storing multiple representations of a source object in object storage
DATE-ISSUED: March 18, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Atkinson; Robert G.	Woodinville	WA	N/A	N/A
Williams; Antony S.	Redmond	WA	N/A	N/A
Wittenberg; Craig	Mercer Island	WA	N/A	N/A
Koppolu; Srinivasa R.	Redmond	WA	N/A	N/A
Hodges; C. Douglas	Redmond	WA	N/A	N/A

US-CL-CURRENT: 345/433; 364/243.4, 364/280.6, 364/281.3, 364/DIG.1, 711/118

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KWC](#) | [Image](#)

20. Document ID: US 5613122 A

Entry 20 of 30

File: USPT

Mar 18, 1997

US-PAT-NO: 5613122

DOCUMENT-IDENTIFIER: US 5613122 A

TITLE: Object-oriented operating system
DATE-ISSUED: March 18, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Burnard; David J.	San Jose	CA	N/A	N/A
Taylor; Thomas H.	San Jose	CA	N/A	N/A

US-CL-CURRENT: 713/1; 709/301

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Terms	Documents
object stream and flag	30

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Entry 21 of 30

File: USPT

Mar 4, 1997

US-PAT-NO: 5608909

DOCUMENT-IDENTIFIER: US 5608909 A

TITLE: Method and system for caching presentation data of a source object in a presentation cache

DATE-ISSUED: March 4, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Atkinson; Robert G.	Woodinville	WA	N/A	N/A
Williams; Antony S.	Redmond	WA	N/A	N/A
Wittenberg; Craig	Mercer Island	WA	N/A	N/A
Koppolu; Srinivasa R.	Redmond	WA	N/A	N/A
Hodges; C. Douglas	Redmond	WA	N/A	N/A

US-CL-CURRENT: 395/703; 364/243.4, 364/280.6, 364/281.3, 364/DIG1, 395/705, 709/303,
711/118**22. Document ID: US 5603031 A**

Entry 22 of 30

File: USPT

Feb 11, 1997

US-PAT-NO: 5603031

DOCUMENT-IDENTIFIER: US 5603031 A

TITLE: System and method for distributed computation based upon the movement, execution, and interaction of processes in a network

DATE-ISSUED: February 11, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
White; James E.	San Carlos	CA	N/A	N/A
Helgeson; Christopher S.	Mountain View	CA	N/A	N/A
Steedman; Douglas A.	Mountain View	CA	N/A	N/A

US-CL-CURRENT: 709/303**23. Document ID: US 5581760 A**

Entry 23 of 30

File: USPT

Dec 3, 1996

US-PAT-NO: 5581760
DOCUMENT-IDENTIFIER: US 5581760 A

TITLE: Method and system for referring to and binding to objects using identifier objects
DATE-ISSUED: December 3, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Atkinson; Robert G.	Woodinville	WA	N/A	N/A
Williams; Antony S.	Mercer Island	WA	N/A	N/A
Jung; Edward K.	Seattle	WA	N/A	N/A

US-CL-CURRENT: 395/702; 364/280, 364/280.4, 364/284, 364/284.3, 364/DIG.1, 395/703

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24. Document ID: US 5555984 A

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File: USPT

Sep 17, 1996

US-PAT-NO: 5555984

DOCUMENT-IDENTIFIER: US 5555984 A

TITLE: Automated glass and plastic refuse sorter
DATE-ISSUED: September 17, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sommer, Jr.; Edward J.	Nashville	TN	N/A	N/A
Kittel; Michael A.	Unionville	TN	N/A	N/A
Quarles; Ronald A.	Nolensville	TN	N/A	N/A

US-CL-CURRENT: 209/580; 209/581, 209/587, 209/939, 250/223R, 250/226

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25. Document ID: US 5522025 A

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File: USPT

May 28, 1996

US-PAT-NO: 5522025

DOCUMENT-IDENTIFIER: US 5522025 A

TITLE: Object-oriented window area display system
DATE-ISSUED: May 28, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rosenstein; Larry S.	Santa Clara	CA	N/A	N/A

US-CL-CURRENT: 345/344; 345/340

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26. Document ID: US 5467472 A

Entry 26 of 30

File: USPT

Nov 14, 1995

US-PAT-NO: 5467472
DOCUMENT-IDENTIFIER: US 5467472 A

TITLE: Method and system for generating and maintaining property sets with unique format identifiers
DATE-ISSUED: November 14, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Williams; Antony	Redmond	WA	N/A	N/A
Martinez; Edward A.	Redmond	WA	N/A	N/A
Hachamovitch; Dean J.	Seattle	WA	N/A	N/A

US-CL-CURRENT: 707/1

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27. Document ID: US 5459827 A

Entry 27 of 30

File: USPT

Oct 17, 1995

US-PAT-NO: 5459827

DOCUMENT-IDENTIFIER: US 5459827 A

TITLE: Layout method for structured documents

DATE-ISSUED: October 17, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Allouche; Sylvia	Paris	N/A	N/A	FRX
Lopez; Francois	Bois-Colombes	N/A	N/A	FRX
Charquaoui; Rachid	Noisy-le-Grand	N/A	N/A	FRX

US-CL-CURRENT: 707/513

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28. Document ID: US 5339413 A

Entry 28 of 30

File: USPT

Aug 16, 1994

US-PAT-NO: 5339413

DOCUMENT-IDENTIFIER: US 5339413 A

TITLE: Data stream protocol for multimedia data streaming data processing system
DATE-ISSUED: August 16, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Koval; Michael J.	Boca Raton	FL	N/A	N/A
Lawton; William W.	Boca Raton	FL	N/A	N/A
Tyler; John G.	Boynton Beach	FL	N/A	N/A
Winters; Scott L.	Plantation	FL	N/A	N/A

US-CL-CURRENT: 709/300; 364/239.1, 364/239.7, 364/281.7, 364/DIG1

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29. Document ID: US 5317645 A

Entry 29 of 30

File: USPT

May 31, 1994

US-PAT-NO: 5317645
DOCUMENT-IDENTIFIER: US 5317645 A

TITLE: Method and apparatus for the recognition and counting of discrete objects
DATE-ISSUED: May 31, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Perozek; Barbara	New Canaan	CT	N/A	N/A
Smith; Timothy R.	Stamford	CT	N/A	N/A

US-CL-CURRENT: 382/141; 209/522, 377/10, 377/11, 382/203, 702/128

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30. Document ID: US 5161230 A

Entry 30 of 30

File: USPT

Nov 3, 1992

US-PAT-NO: 5161230

DOCUMENT-IDENTIFIER: US 5161230 A

TITLE: Multifield identification circuit and related method of operation
DATE-ISSUED: November 3, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Carter; Jeffery A.	Manhattan Beach	CA	N/A	N/A
Otsubo; Peggy M.	Redondo Beach	CA	N/A	N/A
Gravenstede; Kenneth N.	Lawndale	CA	N/A	N/A
Grotz; Robert A.	Palos Verdes Estates	CA	N/A	N/A

US-CL-CURRENT: 707/3; 364/231.8, 364/232.5, 364/247, 364/247.1, 364/247.2, 364/247.3 ,
364/254, 364/254.6, 364/259, 364/280, 364/280.2, 364/DIG.1

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Terms	Documents
object stream and flag	30

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Terms	Documents
object relational mapping	6

Database: All Databases (USPT + EPAB + JPAB + DWPI + TDBD) object relational mapping **Refine Search:****Search History**

DB Name	Query	Hit Count	Set Name
ALL	object relational mapping	6	<u>L5</u>
ALL	object oriented system and relational system	13	<u>L4</u>
ALL	orm and relational system and object class	0	<u>L3</u>
ALL	orm and object oriented	1	<u>L2</u>
ALL	orm	361	<u>L1</u>

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Terms	Documents
object oriented system and relational system	13

Database: [All Databases \(USPT + EPAB + JPAB + DWPI + TDBD\)](#)object oriented system and relational
system

Refine Search:

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<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
ALL	object oriented system and relational system	13	<u>L4</u>
ALL	orm and relational system and object class	0	<u>L3</u>
ALL	orm and object oriented	1	<u>L2</u>
ALL	orm	361	<u>L1</u>

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Terms	Documents
orm and object oriented	1

Database: [All Databases \(USPT + EPAB + JPAB + DWPI + TDBD\)](#)  [orm and object oriented](#) Refine Search:  **Search History**

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
ALL	orm and object oriented	1	L2
ALL	orm	361	L1

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Entry 1 of 13

File: USPT

May 18, 1999

US-PAT-NO: 5905982

DOCUMENT-IDENTIFIER: US 5905982 A

TITLE: Handling null values in SQL queries over object-oriented data
DATE-ISSUED: May 18, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Carey; Michael James	San Jose	CA	N/A	N/A
Kiernan; Gerald George	San Jose	CA	N/A	N/A

US-CL-CURRENT: 707/4; 707/103, 707/2, 707/202, 707/3, 707/5**[Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWMC | Image]****2. Document ID: US 5826259 A**

Entry 2 of 13

File: USPT

Oct 20, 1998

US-PAT-NO: 5826259

DOCUMENT-IDENTIFIER: US 5826259 A

TITLE: Easily expandable data processing system and method
DATE-ISSUED: October 20, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Doktor; Karol	Wheelers Hill	N/A	N/A	AUX

US-CL-CURRENT: 707/4; 707/1**[Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWMC | Image]****3. Document ID: US 5797136 A**

Entry 3 of 13

File: USPT

Aug 18, 1998

US-PAT-NO: 5797136
DOCUMENT-IDENTIFIER: US 5797136 A

TITLE: Optional quantifiers in relational and object-oriented views of database systems
DATE-ISSUED: August 18, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Boyer; Philip L.	San Jose	CA	N/A	N/A
Kiernan; Gerald G.	San Jose	CA	N/A	N/A

US-CL-CURRENT: 707/2; 707/3, 707/5

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KWMC](#) | [Image](#)

4. Document ID: US 5778355 A

Entry 4 of 13 File: USPT

Jul 7, 1998

US-PAT-NO: 5778355
DOCUMENT-IDENTIFIER: US 5778355 A

TITLE: Database method and apparatus for interactively retrieving data members and related members from a collection of data
DATE-ISSUED: July 7, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Boyer; Philip L.	San Jose	CA	N/A	N/A
Carey; Michael James	San Jose	CA	N/A	N/A
Kiernan; Gerald G.	San Jose	CA	N/A	N/A

US-CL-CURRENT: 707/2; 707/102, 707/103, 707/104, 707/4

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5. Document ID: US 5774692 A

Entry 5 of 13 File: USPT

Jun 30, 1998

US-PAT-NO: 5774692
DOCUMENT-IDENTIFIER: US 5774692 A

TITLE: Outer quantifiers in object-oriented queries and views of database systems
DATE-ISSUED: June 30, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Boyer; Philip L.	San Jose	CA	N/A	N/A
Kiernan; Gerald G.	San Jose	CA	N/A	N/A

US-CL-CURRENT: 709/300

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6. Document ID: US 5701400 A

Entry 6 of 13 File: USPT

Dec 23, 1997

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Entry 11 of 13

File: USPT

Apr 1, 1997

US-PAT-NO: 5617567

DOCUMENT-IDENTIFIER: US 5617567 A

TITLE: Data processing system and method for retrieving and entity specified in a search path record from a relational database

DATE-ISSUED: April 1, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Doktor, Karol	Wheelers Hill	N/A	N/A	AUX

US-CL-CURRENT: 707/2[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KOMC](#) | [Image](#)**12. Document ID: US 5604899 A**

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File: USPT

Feb 18, 1997

US-PAT-NO: 5604899

DOCUMENT-IDENTIFIER: US 5604899 A

TITLE: Data relationships processor with unlimited expansion capability

DATE-ISSUED: February 18, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Doktor, Karol	Wheelers Hill	N/A	N/A	AUX

US-CL-CURRENT: 707/3; 364/282.1, 364/282.2, 364/282.3, 364/283.1, 364/283.4, 364/DIG.1[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KOMC](#) | [Image](#)**13. Document ID: JP 11504451 W, WO 9634350 A1, EP 823092 A1**

Entry 13 of 13

File: DWPI

Apr 20, 1999

DERWENT-ACC-NO: 1996-497826

DERWENT-WEEK: 199926

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TITLE: Modelling for conversion between object and relational systems - has user object database modelled in relational database and provides converter for changes and queries between them.

INVENTOR: ALTHOFF, J; BELANGER, K ; KOUSHIK, R ; LEE, S ; MCGINNIS, B ; MCWILLIAMS, F ; PRASAD, N ; ZHANG, Y

PRIORITY-DATA:

1995US-0521667

August 31, 1995

1995US-0428003

April 24, 1995

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 11504451 W	April 20, 1999	N/A	079	G06F017/30
WO 9634350 A1	October 31, 1996	E	071	G06F017/30
EP 823092 A1	February 11, 1998	E	000	G06F017/30

INT-CL (IPC): G06 F 12/00; G06 F 17/30

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Image](#)

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object oriented system and relational system	13

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Entry 1 of 1

File: TDBD

Mar 1, 1994

TDB-ACC-NO: NN9403567

DISCLOSURE TITLE: Process to Support Objects External to an Object-Oriented Environment

PUBLICATION-DATA:

IBM Technical Disclosure Bulletin, March 1994, US

VOLUME NUMBER: 37

ISSUE NUMBER: 3

PAGE NUMBER: 567 - 574

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Full | **Title** | **Citation** | **Front** | **Review** | **Classification** | **Date** | **Reference** | **Claims** | **KMC** | **Clip Img** | **Image**

Terms	Documents
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including document number

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object oriented system and relational system ▾

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ALL	object oriented system and relational system	14	<u>L2</u>
ALL	orm grammar	0	<u>L1</u>

Search Results - Record(s) 1 through 10 of 14 returned.**1. Document ID: US 6006214 A**

Entry 1 of 14

File: USPT

Dec 21, 1999

US-PAT-NO: 6006214

DOCUMENT-IDENTIFIER: US 6006214 A

TITLE: Database management system, method, and program for providing query rewrite transformations for nested set elimination in database views

DATE-ISSUED: December 21, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Carey; Michael J.	San Jose	CA	N/A	N/A
Kiernan; Gerald George	San Jose	CA	N/A	N/A

US-CL-CURRENT: 707/2; 707/103**2. Document ID: US 5905982 A**

Entry 2 of 14

File: USPT

May 18, 1999

US-PAT-NO: 5905982

DOCUMENT-IDENTIFIER: US 5905982 A

TITLE: Handling null values in SQL queries over object-oriented data

DATE-ISSUED: May 18, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Carey; Michael James	San Jose	CA	N/A	N/A
Kiernan; Gerald George	San Jose	CA	N/A	N/A

US-CL-CURRENT: 707/4; 707/103, 707/2, 707/202, 707/3, 707/5**3. Document ID: US 5826259 A**

Entry 3 of 14

File: USPT

Oct 20, 1998

US-PAT-NO: 5826259
DOCUMENT-IDENTIFIER: US 5826259 A

TITLE: Easily expandable data processing system and method
DATE-ISSUED: October 20, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Doktor; Karol	Wheelers Hill	N/A	N/A	AUX

US-CL-CURRENT: 707/4; 707/1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KWMC](#) | [Image](#)

4. Document ID: US 5797136 A

Entry 4 of 14 File: USPT Aug 18, 1998

US-PAT-NO: 5797136
DOCUMENT-IDENTIFIER: US 5797136 A

TITLE: Optional quantifiers in relational and object-oriented views of database systems
DATE-ISSUED: August 18, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Boyer; Philip L.	San Jose	CA	N/A	N/A
Kiernan; Gerald G.	San Jose	CA	N/A	N/A

US-CL-CURRENT: 707/2; 707/3, 707/5

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KWMC](#) | [Image](#)

5. Document ID: US 5778355 A

Entry 5 of 14 File: USPT Jul 7, 1998

US-PAT-NO: 5778355
DOCUMENT-IDENTIFIER: US 5778355 A

TITLE: Database method and apparatus for interactively retrieving data members and related members from a collection of data
DATE-ISSUED: July 7, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Boyer; Philip L.	San Jose	CA	N/A	N/A
Carey; Michael James	San Jose	CA	N/A	N/A
Kiernan; Gerald G.	San Jose	CA	N/A	N/A

US-CL-CURRENT: 707/2; 707/102, 707/103, 707/104, 707/4

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6. Document ID: US 5774692 A

Entry 6 of 14 File: USPT Jun 30, 1998

US-PAT-NO: 5774692
DOCUMENT-IDENTIFIER: US 5774692 A

TITLE: Outer quantifiers in object-oriented queries and views of database systems
DATE-ISSUED: June 30, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Boyer; Philip L.	San Jose	CA	N/A	N/A
Kiernan; Gerald G.	San Jose	CA	N/A	N/A

US-CL-CURRENT: 709/300

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KWMC](#) | [Image](#)

7. Document ID: US 5701400 A

Entry 7 of 14

File: USPT

Dec 23, 1997

US-PAT-NO: 5701400

DOCUMENT-IDENTIFIER: US 5701400 A

TITLE: Method and apparatus for applying if-then-else rules to data sets in a relational data base and generating from the results of application of said rules a database of diagnostics linked to said data sets to aid executive analysis of financial data
DATE-ISSUED: December 23, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Amado; Carlos Armando	Miami	FL	33131-240	N/A

0

US-CL-CURRENT: 706/45; 706/47, 706/60

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KWMC](#) | [Image](#)

8. Document ID: US 5682535 A

Entry 8 of 14

File: USPT

Oct 28, 1997

US-PAT-NO: 5682535

DOCUMENT-IDENTIFIER: US 5682535 A

TITLE: Operating system and data base using table access method with dynamic binding
DATE-ISSUED: October 28, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Knudsen; Helge	Oakville	N/A	N/A	CAX

US-CL-CURRENT: 395/701; 395/702, 707/1, 707/10, 707/103

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KWMC](#) | [Image](#)

9. Document ID: US 5675779 A

Entry 9 of 14

File: USPT

Oct 7, 1997

• US-PAT-NO: 5701400
DOCUMENT-IDENTIFIER: US 5701400 A

TITLE: Method and apparatus for applying if-then-else rules to data sets in a relational data base and generating from the results of application of said rules a database of diagnostics linked to said data sets to aid executive analysis of financial data
DATE-ISSUED: December 23, 1997

INVENTOR-INFORMATION:

NAME Amado; Carlos Armando	CITY Miami	STATE FL	ZIP CODE 33131-240	COUNTRY N/A	0
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US-CL-CURRENT: 706/45; 706/47, 706/60

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KOMC	Image
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7. Document ID: US 5682535 A

Entry 7 of 13 File: USPT

Oct 28, 1997

US-PAT-NO: 5682535
DOCUMENT-IDENTIFIER: US 5682535 A

TITLE: Operating system and data base using table access method with dynamic binding
DATE-ISSUED: October 28, 1997

INVENTOR-INFORMATION:

NAME Knudsen; Helge	CITY Oakville	STATE N/A	ZIP CODE N/A	COUNTRY CAX
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US-CL-CURRENT: 395/701; 395/702, 707/1, 707/10, 707/103

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KOMC	Image
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8. Document ID: US 5675779 A

Entry 8 of 13 File: USPT

Oct 7, 1997

US-PAT-NO: 5675779
DOCUMENT-IDENTIFIER: US 5675779 A

TITLE: Data processing system and method for maintaining cardinality in a relational database
DATE-ISSUED: October 7, 1997

INVENTOR-INFORMATION:

NAME Doktor; Karol	CITY Victoria	STATE N/A	ZIP CODE N/A	COUNTRY AUX
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US-CL-CURRENT: 707/4; 707/3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KOMC	Image
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9. Document ID: US 5659746 A

Entry 9 of 13

File: USPT

Aug 19, 1997

• US-PAT-NO: 5659746
DOCUMENT-IDENTIFIER: US 5659746 A

TITLE: Method for storing and retrieving digital data transmissions
DATE-ISSUED: August 19, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bankert; William	Byron	CA	N/A	N/A
Leppla; Bruce W.	San Francisco	CA	N/A	N/A
Macondray; Frederick W.	Mountain View	CA	N/A	N/A
Gioumousis; George	Palo Alto	CA	N/A	N/A
Parcel; Karel Jan	Cupertino	CA	N/A	N/A

US-CL-CURRENT: 707/205; 380/25, 707/104, 707/9

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Image](#)

10. Document ID: US 5652882 A

Entry 10 of 13

File: USPT

Jul 29, 1997

US-PAT-NO: 5652882

DOCUMENT-IDENTIFIER: US 5652882 A

TITLE: Data processing system and method for detecting mandatory relations violation in a relational database
DATE-ISSUED: July 29, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Doktor; Karol	Wheeler's Hill	N/A	N/A	AUX

US-CL-CURRENT: 707/201; 707/103

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US-PAT-NO: 5675779
DOCUMENT-IDENTIFIER: US 5675779 A

TITLE: Data processing system and method for maintaining cardinality in a relational database
DATE-ISSUED: October 7, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Doktor; Karol	Victoria	N/A	N/A	AUX

US-CL-CURRENT: 707/4; 707/3

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Image](#)

10. Document ID: US 5659746 A

Entry 10 of 14

File: USPT

Aug 19, 1997

US-PAT-NO: 5659746

DOCUMENT-IDENTIFIER: US 5659746 A

TITLE: Method for storing and retrieving digital data transmissions
DATE-ISSUED: August 19, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bankert; William	Byron	CA	N/A	N/A
Leppla; Bruce W.	San Francisco	CA	N/A	N/A
Macondray; Frederick W.	Mountain View	CA	N/A	N/A
Gioumousis; George	Palo Alto	CA	N/A	N/A
Parcel; Karel Jan	Cupertino	CA	N/A	N/A

US-CL-CURRENT: 707/205; 380/25, 707/104, 707/9

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Image](#)

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Entry 11 of 14

File: USPT

Jul 29, 1997

US-PAT-NO: 5652882

DOCUMENT-IDENTIFIER: US 5652882 A

TITLE: Data processing system and method for detecting mandatory relations violation in a relational database

DATE-ISSUED: July 29, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Doktor; Karol	WHEELERS HILL	N/A	N/A	AUX

US-CL-CURRENT: 707/201; 707/103**Full Title Citation Front Review Classification Date Reference Claims KWMC Image****12. Document ID: US 5617567 A**

Entry 12 of 14

File: USPT

Apr 1, 1997

US-PAT-NO: 5617567

DOCUMENT-IDENTIFIER: US 5617567 A

TITLE: Data processing system and method for retrieving and entity specified in a search path record from a relational database

DATE-ISSUED: April 1, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Doktor; Karol	WHEELERS HILL	N/A	N/A	AUX

US-CL-CURRENT: 707/2**Full Title Citation Front Review Classification Date Reference Claims KWMC Image****13. Document ID: US 5604899 A**

Entry 13 of 14

File: USPT

Feb 18, 1997

US-PAT-NO: 5604899
DOCUMENT-IDENTIFIER: US 5604899 A

TITLE: Data relationships processor with unlimited expansion capability
DATE-ISSUED: February 18, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Doktor; Karol	Wheelers Hill	N/A	N/A	AUX

US-CL-CURRENT: 707/3; 364/282.1, 364/282.2, 364/282.3, 364/283.1, 364/283.4, 364/DIG.1

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14. Document ID: JP 11504451 W, WO 9634350 A1, EP 823092 A1

Entry 14 of 14

File: DWPI

Apr 20, 1999

DERWENT-ACC-NO: 1996-497826

DERWENT-WEEK: 199926

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TITLE: Modelling for conversion between object and relational systems - has user object database modelled in relational database and provides converter for changes and queries between them.

INVENTOR: ALTHOFF, J; BELANGER, K ; KOUSHIK, R ; LEE, S ; MCGINNIS, B ; MCWILLIAMS, F ; PRASAD, N ; ZHANG, Y

PRIORITY-DATA:

1995US-0521667	August 31, 1995
1995US-0428003	April 24, 1995

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 11504451 W	April 20, 1999	N/A	079	G06F017/30
WO 9634350 A1	October 31, 1996	E	071	G06F017/30
EP 823092 A1	February 11, 1998	E	000	G06F017/30

INT-CL (IPC): G06F 12/00; G06F 17/30

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ll and translating and data and object model and relational model

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model and relational model[Refine Search:](#)**Search History**

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ALL	object and relational and mapping and data and structure	769	<u>L1</u>

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1. Document ID: US 5826077 A

Entry 1 of 4

File: USPT

Oct 20, 1998

US-PAT-NR: 5826077

DOCUMENT-IDENTIFIER: US 5826077 A

TITLE: Apparatus and method for adding an associative query capability to a programming language

DATE-ISSUED: October 20, 1998

INVENTOR - INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Blakeley; Jose Alfredo	Plano	TX	N/A	N/A
Thompson; Craig W.	Plano	TX	N/A	N/A

US-CL-CURRENT: 707/4

2. Document ID: US 5761493 A

Entry 2 of 4

File: USPT

Jun 2, 1998

US-PAT-NR: 5761493

DOCUMENT-IDENTIFIER: US 5761493 A

TITLE: Apparatus and method for adding an associative query capability to a programming language

DATE-ISSUED: June 2, 1998

INVENTOR - INFORMATION :

NAME	CITY	STATE	ZIP CODE	COUNTRY
Blakeley; Jose Alfredo	Plano	TX	N/A	N/A
Thompson; Craig W.	Plano	TX	N/A	N/A

US-CL-CURRENT: 707/4; 707/200

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Environ Health Perspect

TuJ 30 1996

US-PAT-NO: 5542078
DOCUMENT-IDENTIFIER: US 5542078 A

TITLE: Object oriented data store integration environment for integration of object oriented databases and non-object oriented data facilities
DATE-ISSUED: July 30, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Martel; Paul A.	Fitchburg	MA	N/A	N/A
Harris; Craig S.	Acton	MA	N/A	N/A

US-CL-CURRENT: 707/101; 707/103

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KWMC](#) | [Image](#)

4. Document ID: US 5315709 A

Entry 4 of 4

File: USPT

May 24, 1994

US-PAT-NO: 5315709

DOCUMENT-IDENTIFIER: US 5315709 A

TITLE: Method and apparatus for transforming objects in data models
DATE-ISSUED: May 24, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Alston, Jr.; Lawrence E.	Framingham	MA	N/A	N/A
Farrell, III; John J.	Lowell	MA	N/A	N/A
Quayle, III; Kenneth W.	Stow	MA	N/A	N/A

US-CL-CURRENT: 707/6; 364/282.1, 364/282.2, 364/283.3, 364/DIG.1

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Entry 1 of 30

File: USPT

Nov 2, 1999

US-PAT-NO: 5978579

DOCUMENT-IDENTIFIER: US 5978579 A

TITLE: Architecture for customizable component system
DATE-ISSUED: November 2, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Buxton; Jeffrey J.	North Andover	MA	N/A	N/A
Portner; Eric S.	Northborough	MA	N/A	N/A
Dupre; David N.	Brookline	MA	N/A	N/A

US-CL-CURRENT: 395/701; 395/703, 395/712**Full** | **Title** | **Citation** | **Front** | **Review** | **Classification** | **Date** | **Reference** | **Claims** | **KMC** | **Image****2. Document ID: US 5974496 A**

Entry 2 of 30

File: USPT

Oct 26, 1999

US-PAT-NO: 5974496

DOCUMENT-IDENTIFIER: US 5974496 A

TITLE: System for transferring diverse data objects between a mass storage device and a network via an internal bus on a network card
DATE-ISSUED: October 26, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Miller; Steven M.	Batavia	IL	N/A	N/A

US-CL-CURRENT: 710/128; 710/36, 710/38**Full** | **Title** | **Citation** | **Front** | **Review** | **Classification** | **Date** | **Reference** | **Claims** | **KMC** | **Image****3. Document ID: US 5970252 A**

Entry 3 of 30

File: USPT

Oct 19, 1999

US-PAT-NO: 5970252
DOCUMENT-IDENTIFIER: US 5970252 A

TITLE: Method and apparatus for loading components in a component system
DATE-ISSUED: October 19, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Buxton; Jeffrey J.	North Andover	MA	N/A	N/A
Dupre; David N.	Brookline	MA	N/A	N/A

US-CL-CURRENT: 395/712; 395/701, 395/703

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KWMC](#) | [Image](#)

4. Document ID: US 5944781 A

Entry 4 of 30 File: USPT Aug 31, 1999

US-PAT-NO: 5944781
DOCUMENT-IDENTIFIER: US 5944781 A

TITLE: Persistent executable object system and method
DATE-ISSUED: August 31, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Murray; Freeman Cameron	San Jose	CA	N/A	N/A

US-CL-CURRENT: 709/202; 707/10, 709/218, 709/229

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KWMC](#) | [Image](#)

5. Document ID: US 5911070 A

Entry 5 of 30 File: USPT Jun 8, 1999

US-PAT-NO: 5911070
DOCUMENT-IDENTIFIER: US 5911070 A

TITLE: Development system with methods for bi-directional application program code generation
DATE-ISSUED: June 8, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Solton; Randolph T.	Berkeley	CA	N/A	N/A
Tabb; Lloyd	Santa Cruz	CA	N/A	N/A

US-CL-CURRENT: 395/701; 395/702, 395/703, 395/704, 395/705

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6. Document ID: US 5878428 A

Entry 6 of 30 File: USPT Mar 2, 1999

US-PAT-NO: 5878428
DOCUMENT-IDENTIFIER: US 5878428 A

TITLE: System, method, and article of manufacture for adding transactional recovery to a binary class in an object oriented system
DATE-ISSUED: March 2, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Copeland; George Prentice	Austin	TX	N/A	N/A
Holdsworth; Simon Antony James	Andover	N/A	N/A	GB2
Smith; Stanley Alan	Austin	TX	N/A	N/A

US-CL-CURRENT: 707/103; 707/202, 707/204

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7. Document ID: US 5859978 A

Entry 7 of 30 File: USPT Jan 12, 1999

US-PAT-NO: 5859978
DOCUMENT-IDENTIFIER: US 5859978 A

TITLE: Managing application programs in a computer network by using a database of application objects
DATE-ISSUED: January 12, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sonderegger; Kelly E.	Orem	UT	N/A	N/A
Hopton; Kevin L.	Orem	UT	N/A	N/A
Brooks; Matthew G.	Orem	UT	N/A	N/A
Lawrence; Andy	Orem	UT	N/A	N/A
Janis; Damon	Provo	UT	N/A	N/A
Dayton; Lori K.	Provo	UT	N/A	N/A
Oldroyd; Thomas B.	Orem	UT	N/A	N/A

US-CL-CURRENT: 709/226; 395/200.31, 395/200.52, 395/200.59, 707/10, 707/100, 707/103,
709/201, 709/222, 709/229

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8. Document ID: US 5857100 A

Entry 8 of 30 File: USPT Jan 5, 1999

US-PAT-NO: 5857100
DOCUMENT-IDENTIFIER: US 5857100 A

TITLE: System, method and article of manufacture for extending externalization for universal transaction processing
DATE-ISSUED: January 5, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Phillips; Mark	Campbell	CA	N/A	N/A
Blevins; Michael	Felton	CA	N/A	N/A

US-CL-CURRENT: 709/101; 395/684, 709/304

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9. Document ID: US 5854750 A

Entry 9 of 30 File: USPT Dec 29, 1998

US-PAT-NO: 5854750
DOCUMENT-IDENTIFIER: US 5854750 A

TITLE: System and method for processing transactions in an environment containing a number of object oriented applications
DATE-ISSUED: December 29, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Phillips; Mark	Campbell	CA	N/A	N/A
Blevins; Michael	Felton	CA	N/A	N/A

US-CL-CURRENT: 700/216; 345/339, 345/348, 345/352, 345/353, 345/357, 395/683, 707/100 ,
707/103, 707/500, 707/501, 707/502, 709/303

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10. Document ID: US 5740439 A

Entry 10 of 30

File: USPTO

Apr 14, 1998

US-PAT-NO: 5740439

DOCUMENT-IDENTIFIER: US 5740439 A

TITLE: Method and system for referring to and binding to objects using identifier objects
DATE-ISSUED: April 14, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Atkinson; Robert G.	Woodinville	WA	N/A	N/A
Williams; Antony S.	Mercer Island	WA	N/A	N/A
Jung; Edward K.	Seattle	WA	N/A	N/A

US-CL-CURRENT: 395/701; 395/703, 709/303

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